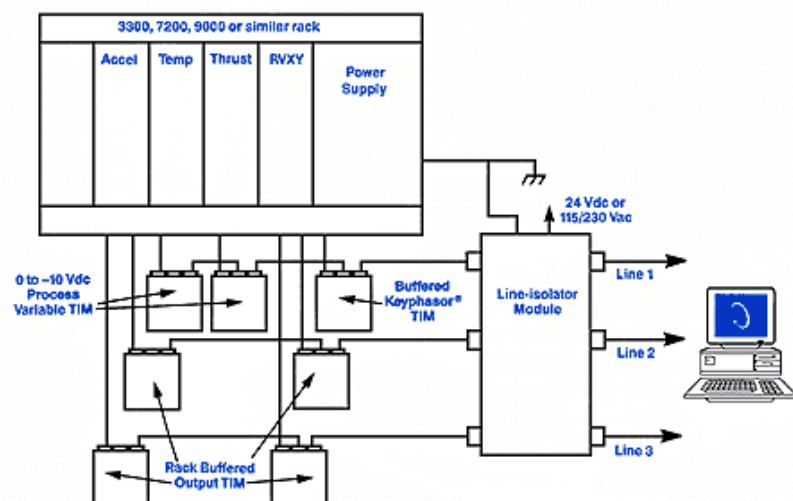# New Products

Trendmaster® 2000:

New modules provide direct interface to continuous monitoring racks

Typical system configuration with Rack, TIMs and Computer

Three new Transducer Interface Modules (TIMs) have been introduced. Now Trendmaster® 2000 can be used to collect and diagnose dynamic data directly from continuous monitoring racks such as Bently Nevada 3300, 7200 and 9000 Systems. These new TIMs also provide a solution to interfacing many non-Bently Nevada transducers to the Trendmaster® 2000.

These new enhancements provide a choice when determining which Bently Nevada computerized monitoring system, Trendmaster® 2000 or Transient Data Manager ™ (TDM)/Dynamic Data Manager (DDM), best satisfies the requirements for your application. There are distinct differences between the periodic on-line Trendmaster® 2000 and the continuous on-line TDM and DDM Systems.

Though designed for use on essential or general-purpose machinery, the Trendmaster® 2000 provides many of the features needed to identify and diag-

nose problems on critical machinery. Using these new enhancements, a customer can collect periodic steady state and dynamic data directly from a monitor rack automatically. The periodic rate at which data is collected depends on the size, configuration and selected transducers of the system.

Before selecting Trendmaster® 2000, consideration should be given to the continuous, on-line TDM or DDM Systems. These systems offer high-speed monitoring of rack alarms and statuses and may be the better choice in many applications. They also provide advanced features such as automatic collection of startup and shutdown data and data "freeze" on alarm which may be required for diagnosing problems on high-speed, critical machinery. The TDM or DDM system is the ideal solution for computerized monitoring of 3300 Monitor racks.

Trendmaster® 2000 can be used to interface to the buffered displacement, velocity or acceleration signal directly

from a monitor. Data is collected by the host (on-site) Trendmaster® 2000 computer. Diagnostics can be performed at this computer or the data can be transferred and diagnosed remotely using a modem and Remote Access Software. Typical remote applications include collecting data on machinery at pipeline pumping stations, hydroelectric stations and multiple process plants.

These new TIMs are also ideal for plants that have stand-alone monitor racks. Trendmaster® 2000 can now interface the monitors in these racks to a computerized monitoring system. Not only can you automatically collect data from your general-purpose machinery, you can also include data from your critical machines which are protected with continuous monitors. That makes Trendmaster® 2000 one answer for two applications. The new TIMs include:

101281-01

Rack Buffered Output TIM:

A single-channel TIM used to interface to a monitor channel's buffered output signal.

101282-01

Buffered Keyphasor® TIM:

A single-channel TIM used to interface to the buffered Keyphasor® signal at the monitor rack.

101283-01

0 to –10 Vdc Recorder (Process Variable) TIM:

A single-channel TIM used to interface to a 7200 or 9000 Monitor which has a 0 to –10 Vdc recorder output.

101284

TIM Line-Isolator:

Now available for applications requiring isolation between monitor racks and the Trendmaster® 2000. It provides three isolated Signal Processing Adaptor (SPA) lines (system cables) to the rack. The SPA occupies two AT-sized slots in the system computer and is responsible for system communication, line powering and data processing. Each SPA has four line ports available. For Orbit plot presentations, the X, Y and Keyphasor® points must be on separate lines. The TIM Line Isolator supports Orbit data collection from monitor racks. ◗